

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): A LCD device comprising:

 a first substrate on which pixels are arranged;

 a second substrate coupled to the first substrate with a sealing member in such a way as to form a gap between the first and second substrates;

 a liquid-crystal layer formed in the gap, the liquid crystal layer being confined by the sealing member; and

 spacers arranged in the liquid-crystal layer;

 wherein the first substrate has a display region for displaying images, the display region being defined to include the pixels;

 wherein the first substrate has a non-display region formed outside the display region, the non-display region being located between the display region and the sealing member;

 wherein the spacers are located in a first part of the liquid-crystal layer corresponding to the display region while none of the spacers are located in a second part of the liquid-crystal layer corresponding to the non-display region; and

 further comprising a depression formed on an inner surface of the first or second substrate;

AMENDMENT UNDER 37 C.F.R. § 1.114(c)

U.S. Appl. No.: 10/629,650

Attorney Docket No.: Q76784

wherein the depression is located in the second part of the liquid-crystal layer, and the depression constitutes a buffer space which receives extra liquid crystal from the liquid crystal layer; and

wherein the depression is substantially vacant except for the extra liquid crystal.

2-4. (canceled).

5. (previously presented): The device according to claim 1, wherein TFTs are arranged on the first substrate in such a way as to be electrically connected to the respective pixels, and a dielectric layer is formed on the first substrate to cover the TFTs and the pixels;

and wherein the depression is formed in the dielectric layer.

6. (previously presented): The device according to claim 1, wherein a dielectric layer is formed on the second substrate;

and wherein the depression is formed in the dielectric layer.

7. (previously presented): The device according to claim 1, wherein one of the first and second substrates comprises a transparent plate and the depression is formed on an inner surface of the plate.

AMENDMENT UNDER 37 C.F.R. § 1.114(c)

U.S. Appln. No.: 10/629,650

Attorney Docket No.: Q76784

8. (previously presented): The device according to claim 1, wherein when the non-display region has a width L (μm) and the gap in the display region has an average value d (μm), the depression has a height H satisfying a relationship of

$$H \geq (1/2) \times (1000 + L) \times [0.02d + [L \times (0.02d/1000)]]/L \text{ (}\mu\text{m)}.$$

9. (previously presented): The device according to claim 1, wherein the spacers are pole-shaped and formed on one of the first and second substrates.

10. (previously presented): The device according to claim 1 wherein the depression forms a step between the display region and the non-display region.

11. - 20. (canceled).

21. (previously presented): The device according to claim 1, further comprising a dielectric overcoat layer on at least a portion of the second substrate;

wherein at least a portion of the dielectric overcoat layer in the second part of the liquid-crystal layer is selectively etched to remove portions of the dielectric overcoat layer and form the depression.

22. (previously presented): An LCD device comprising:

a first substrate;

pixels disposed on the first substrate;

AMENDMENT UNDER 37 C.F.R. § 1.114(c)

U.S. Appln. No.: 10/629,650

Attorney Docket No.: Q76784

a second substrate coupled to the first substrate;

a sealing member creating a gap between the first substrate and the second substrate;

a liquid crystal layer disposed in the gap; and

spacers disposed in the liquid crystal layer;

wherein the LCD device comprises a display region for displaying images and a non-display region which does not display images;

wherein the display region includes the pixels;

wherein the non-display region is disposed between the display region and the sealing member;

wherein the spacers are arranged only in the display region and not in the non-display region; and

further comprising a depression which receives excess liquid crystal from the liquid crystal layer so that the gap between the first substrate and the second substrate is substantially uniform in the display region; and

wherein the depression is substantially vacant except for the excess liquid ~~crystal~~crystal.

23. (previously presented): The device according to claim 22, wherein when the non-display region has a width L (μm) and the gap in the display region has an average value d (μm), the depression has a height H satisfying a relationship of

$$H \geq (1/2) \times (1000 + L) \times [0.02d + [L \times (0.02d/1000)]]/L \text{ (}\mu\text{m)}.$$

AMENDMENT UNDER 37 C.F.R. § 1.114(c)

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24. (new): The device according to claim 1, wherein the spacers comprise a plurality of discrete spacers.

25. (new): The device according to claim 1, wherein the spacers comprise a plurality of discrete spacers arranged in a matrix with a plurality of rows and columns.

26. (new): The device according to claim 25, wherein the spacers are pole-shaped.

27. (new): The device according to claim 22, wherein the spacers comprise a plurality of discrete spacers.

28. (new): The device according to claim 22, wherein the spacers comprise a plurality of discrete spacers arranged in a matrix with a plurality of rows and columns.

29. (new): The device according to claim 28, wherein the spacers are pole-shaped.